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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

December 12, 2013

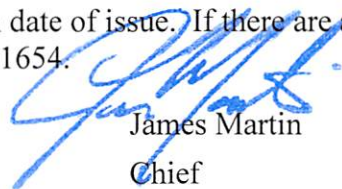
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9501050, issued to GASTAR EXPLORATION USA, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: JOHN SECKMAN NO. 1

Farm Name: WEESE, EVERETT R.

**API Well Number: 47-9501050**

**Permit Type: Plugging**

Date Issued: 12/12/2013

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
2. Well work activities shall not constitute a hazard to the safety of persons.

1) Date: October 4, 2013  
 2) Operator's Well Number John Seckman No.1  
 3) API Well No: 47 - 095 - 1050  
                                     State                                    County                                    Permit

## APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) WELL TYPE:	Oil	X	Gas		X	Liquid Injection		Waste Disposal		(If "Gas", Production		Underground Storage		) Deep		Shallow		X																			
5) LOCATION:	Elevation:	710'			Watershed:	McElroy Creek																															
	District:	McElroy			County:	Tyler			Quadrangle	Shirley 7.5'																											
6) WELL OPERATOR:	Gastar Exploration, Ltd.				494487685	7) DESIGNATED AGENT	Mike McCown																														
Address	229 W. Main St., Suite 301					Address	229 W. Main St., Suite 301																														
	Clarksburg, WV 26301						Clarksburg, WV 26301																														
8) OIL & GAS INSPECTOR TO BE NOTIFIED																			9) PLUGGING CONTRACTOR																		
Name	Joe Taylor																		Name																		
Address	497 Claylick Road																		Address																		
	Ripley, WV 25271																																				

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

<u>CASING</u>  Unknown	TD- 1818	Coal: NA
	Gel	1818 - 1750
	Plug No. 1	1750 - 1600
	Freepoint, Cut & Pull Production Casing at 700' (Est.)	
<u>LINERS</u>	Plug No. 2	750 - 650
	Plug No. 3	350 - 250
	Freepoint, Cut & Pull Surface Casing (if present) at 100' (Est.)	
	Plug No. 4	150 - Surface
<p align="center"><b>NOTES:</b></p>		

Free point, cut and pull all casing strings present. Place 100 ft. cement plug at bottom of any casing left in well.  
Fill Well Bore with 6% Gel Between all Cement Plugs  
Erect Monument with API No.

CEMENT PLUGS MUST BE A MINIMUM OF 100' OF CLASS A CEMENT WITH NO MORE THAN 3%  $\text{CaCl}_2$  AND NO OTHER ADDITIVES.

Inspector 24 hours before permitted work can commence.

Work order approved by Inspector

Date \_\_\_\_\_

10-28-13

**WELL RECORD**

**Operator:** Gastar Exploration, Ltd.  
229 West Main Street  
Clarksburg, WV 26301  
(304) 622-4796

**Well:** John Seckman No.1

**API** 47-095- 1050

**Latitude:** 39°25'36.2"

**UTM Coordinates (NAD 1983)**

**Longitude:** 80°48'33.3"

**Northing:** 4,364,159

**Elevation:** 710

**Easting:** 516,432

**TD:** 1,818

**Casing Record**

**Producing Formation:** Big Injun

Not Available

**Spud Date:** 2/25/1896

**Completion Date:** 3/27/1896

**Well Log**

Not Available

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Office of Oil and Gas  
WV Dept. of Environmental Protection

CK 35127  
10000

- 1) Date: October 4, 2013  
2) Operator's Well Number  
John Seckman No.1  
3) API Well No: 47 - 095 - 1050  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

- 4) Surface Owner(s) to be served:  
(a) Name Everett R. Weese ✓  
Address H.C. 74, Box 92  
Alma, WV 26320  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Joe Taylor  
Address 497 Claylick Road  
Ripley, WV 25271  
Telephone 304-380-7469  
5) (a) Coal Operator:  
Name NA  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name NA  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

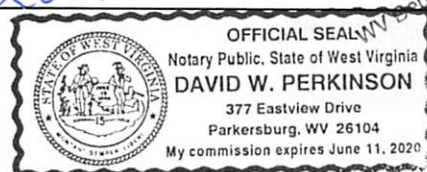
- 1) The Application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work, and describes the well and its location and the plugging work order; and  
2) The plat (surveyor's map) showing the well location on Form WW-6

The reason you have received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Gastar Exploration, Ltd.  
By: Mike McCown  
Its: COO & Designated Agent  
Address 229 W. Main St., Suite 301  
Clarksburg, WV 26301  
Telephone (304) 622-4796

Subscribed and sworn before me this 4th day of October, 2013  
David W. Perkins Notary Public  
My Commission Expires June 11, 2020



Operator's Well No. John Seckman No.1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator	Gastar Exploration, Ltd.			OP' Code	494487685
Watershed	McElroy Creek			Quadrangle	Shirley 7.5'
Elevation	710'	County	Tyler	District	McElroy

Description of anticipated Pit Waste: Fluids encountered in plugging subject well

Do you anticipate more than 5,000 bbls of water to complete the proposed well work?      Yes      No      ☒ X

Will a synthetic liner be used in pit? Yes If so, what mil.?

**Proposed Disposal Method For Treated Pit Wastes:**

X Land Application  
Underground Injection (UIC Permit Number \_\_\_\_\_)  
Reuse (at API Number \_\_\_\_\_)  
Off Site Disposal (Supply Form WW-9 for disposal location)  
Other (Explain \_\_\_\_\_)

Drilling medium anticipated for this well? Air, fresh water, oil based, etc. NA

- If oilbased, what type? Synthetic, petroleum, etc.

Additives to be used?

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.	NA
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- If left in pit and plan to solidify, what medium will be used?	Cement, lime, sawdust	NA
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- Landfill or offsite name/permit number?

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature  

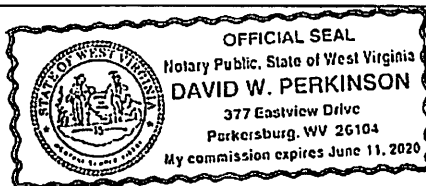
Company Official (Typed Name) Mike McCown

Company Official Title COO & Designated Agent *hcc*

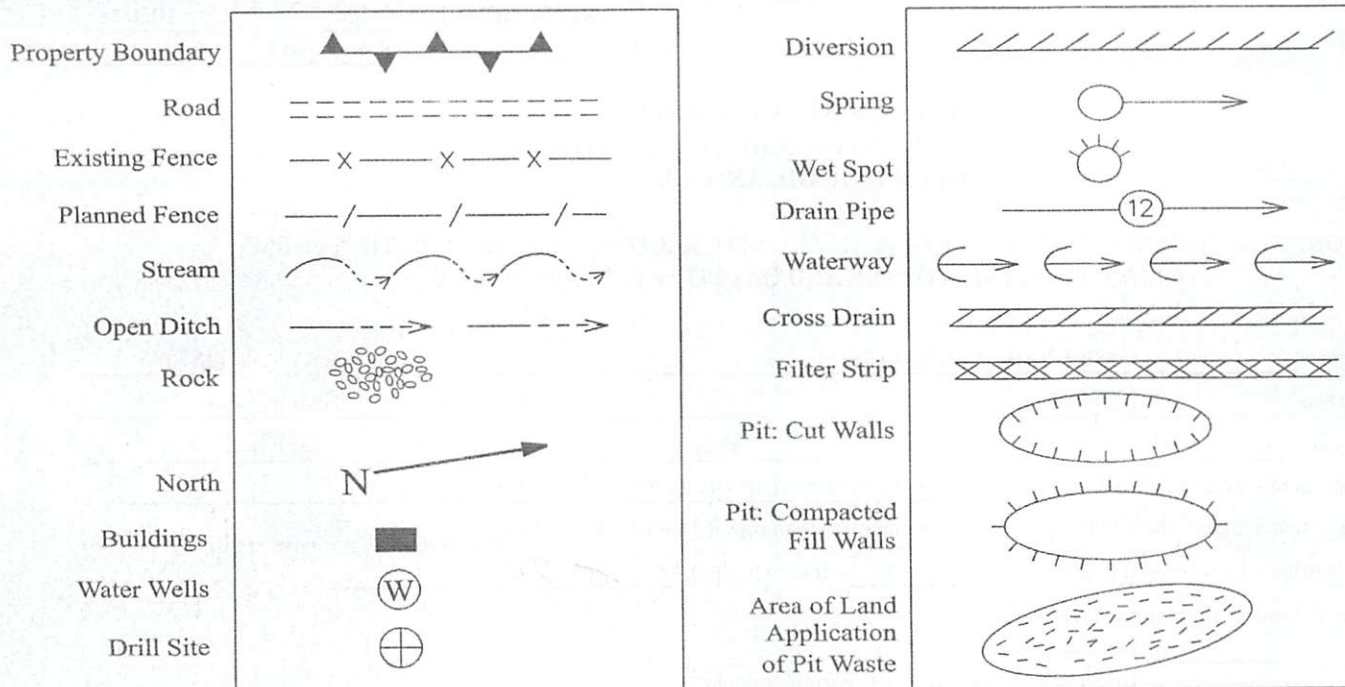
Subscribed and sworn before me this 24th day of October 2013

My commission expires June 11, 2020

Form WW-9



9501050P

Legend

Proposed Revegetation Treatment: Acres Disturbed Area I Approx. 0.2 Ac. Prevegetation pH \_\_\_\_\_

Area II  
Approx. 0.1 Ac.

Lime 2 Tons/Acre or Correct to pH 6.5  
 Fertilizer (10-20-20 or Equivalent) 500 Lbs./Acre (500 lbs. Minimum)  
 Mulch Straw 2 Tons/Acre

SEED MIXTURES

Seed Type	Area I (Location)	Lbs./Ac.
Tall Fescue		40
Ladino Clover		5

Seed Type	Area II (Road)	Lbs./Ac.
Tall Fescue		40
Ladino Clover		5

Attach:  
 Drawing(s) of road, location, pit and proposed area for land application  
 Photocopied section of involved 7.5' topographic sheet.

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 NOV 6 2013

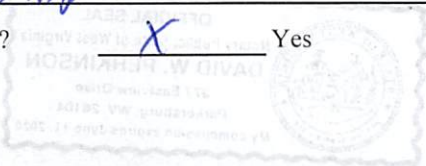
Office of Oil and Gas  
 WV Dept. of Environmental Protection

Plan Approved by: [Signature]  
 Comments: \_\_\_\_\_

Title: Inspector

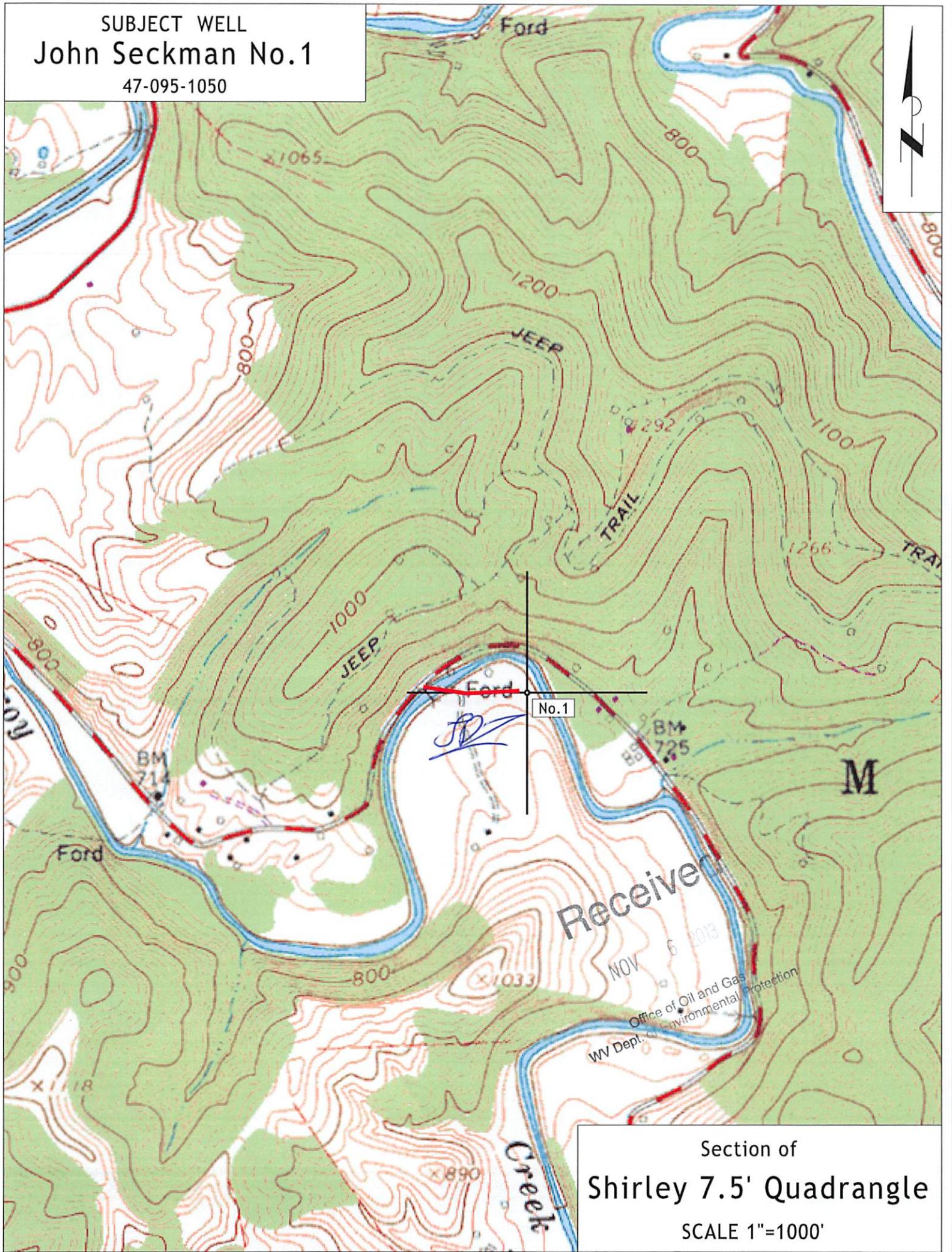
Date: 10-28-13

Field Reviewed? X Yes \_\_\_\_\_ No \_\_\_\_\_



9501050P

SUBJECT WELL  
John Seckman No.1  
47-095-1050



Section of  
Shirley 7.5' Quadrangle  
SCALE 1"=1000'

West Virginia Department of Environmental Protection  
Office of Oil & Gas

**WELL LOCATION FORM: GPS**

API: 47- 095 - 1050 WELL NO: No.1

FARM NAME: John Seckman

RESPONSIBLE PARTY NAME: Gastar Exploration, Ltd.

COUNTY: Tyler DISTRICT: McElroy

QUADRANGLE: Shirley 7.5'

SURFACE OWNER: Everett R. Weese

ROYALTY OWNER: Everett R. Weese

UTM GPS NORTHING: 4,364,159 (NAD 83)

UTM GPS EASTING: 516,432 (NAD 83) GPS ELEVATION: 216 m. (-710')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil & Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone:17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum - 3.05 meters
3. Data Collection Method:

Survey Grade GPS	<input type="checkbox"/> Post Processed Differential	<input type="checkbox"/>
	<input type="checkbox"/> Real-Time Differential	<input type="checkbox"/>
Mapping Grade GPS	<input checked="" type="checkbox"/> Post Processed Differential	<input checked="" type="checkbox"/>
	<input type="checkbox"/> Real-Time Differential	<input type="checkbox"/>

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NOV 6 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Mike McCown  
Signature

COO & Designated Agent  
Title

October 4, 2013  
Date